

# APPENDIX REPORT

Project No.	SHT2006062904EW	Radio Specification	Bluetooth BLE
Test sample No.	YPHT20060629002	Model No.	T350
Start test date	2020/6/29	Finish date	2020/6/29
Temperature	25°C	Humidity	50%
Test Engineer	Jiongsheng.Feng	Auditor	<i>William.wang</i>

Appendix clause	Test item	Result
A	Peak Output Power	PASS
B	Power Spectral Density	PASS
C	6 dB Bandwidth	PASS
D	99% Occupied Bandwidth	PASS
E	Duty cycle	PASS
F	Band edge and Spurious Emissions (conducted)	PASS

**Appendix A: Peak Output Power**

Type	Channel	Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
BT-BLE	00	-1.00	-1.02	≤ 30.00	Pass
	19	-0.97	-0.98		
	39	-1.02	-1.03		

**Appendix B: Power Spectral Density**

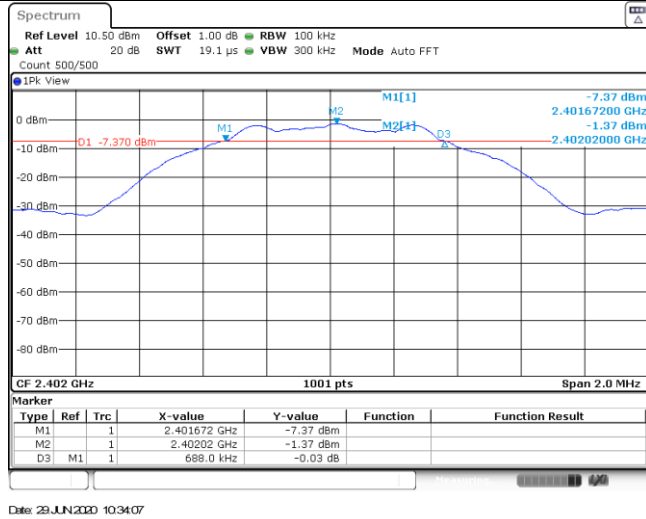
Type	Channel	Power Spectral Density(dBm/3KHz)	Limit (dBm/3KHz)	Result
BT-BLE	00	-16.29	≤8.00	Pass
	19	-16.17		
	39	-16.32		

<p>CH00</p>	<p>Ref Level 10.50 dBm Offset 1.00 dB RBW 3 kHz Att 20 dB SWT 632.3 μs VBW 10 kHz Mode Auto FFT Count 100/100 IPK Max M1[1] -16.29 dBm 2.40199280 GHz CF 2.402 GHz 691 pts Span 1.0 MHz Date: 29 JUN 2020 10:34:42</p>
<p>CH19</p>	<p>Ref Level 10.50 dBm Offset 1.00 dB RBW 3 kHz Att 20 dB SWT 632.3 μs VBW 10 kHz Mode Auto FFT Count 100/100 IPK Max M1[1] -16.17 dBm 2.43999280 GHz CF 2.44 GHz 691 pts Span 1.0 MHz Date: 29 JUN 2020 10:38:00</p>
<p>CH39</p>	<p>Ref Level 10.50 dBm Offset 1.00 dB RBW 3 kHz Att 20 dB SWT 632.3 μs VBW 10 kHz Mode Auto FFT Count 100/100 IPK Max M1[1] -16.32 dBm 2.47999280 GHz CF 2.48 GHz 691 pts Span 1.0 MHz Date: 29 JUN 2020 10:39:33</p>

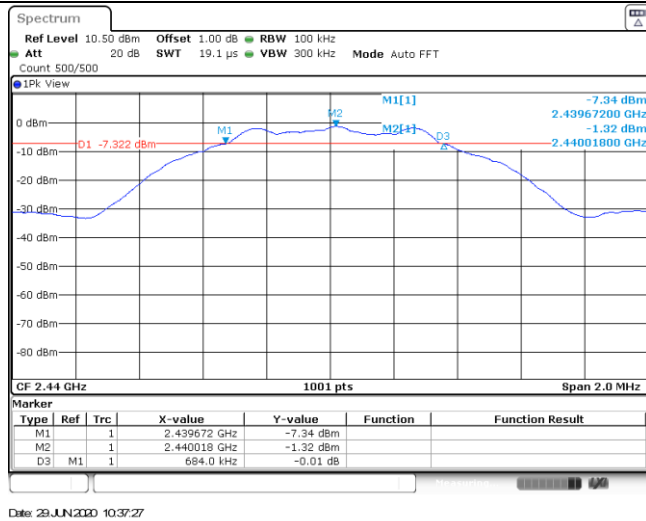
**Appendix C: 6dB bandwidth**

Type	Channel	6dB Bandwidth(kHz)	Limit (kHz)	Result
BT-BLE	00	688.00	≥500	Pass
	19	684.00		
	39	686.00		

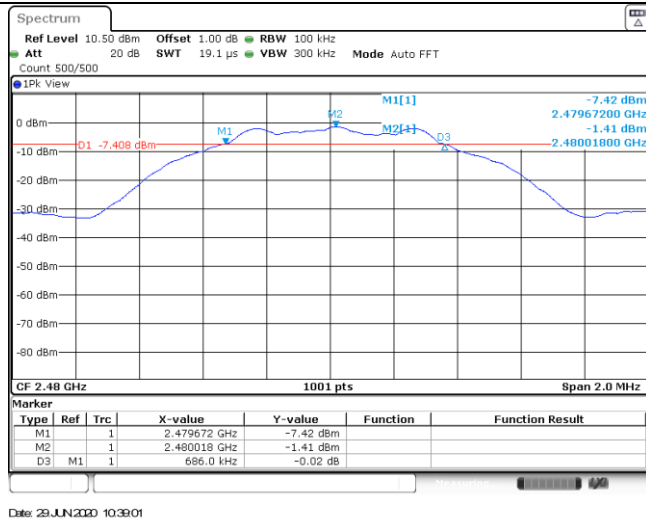
CH00



CH19

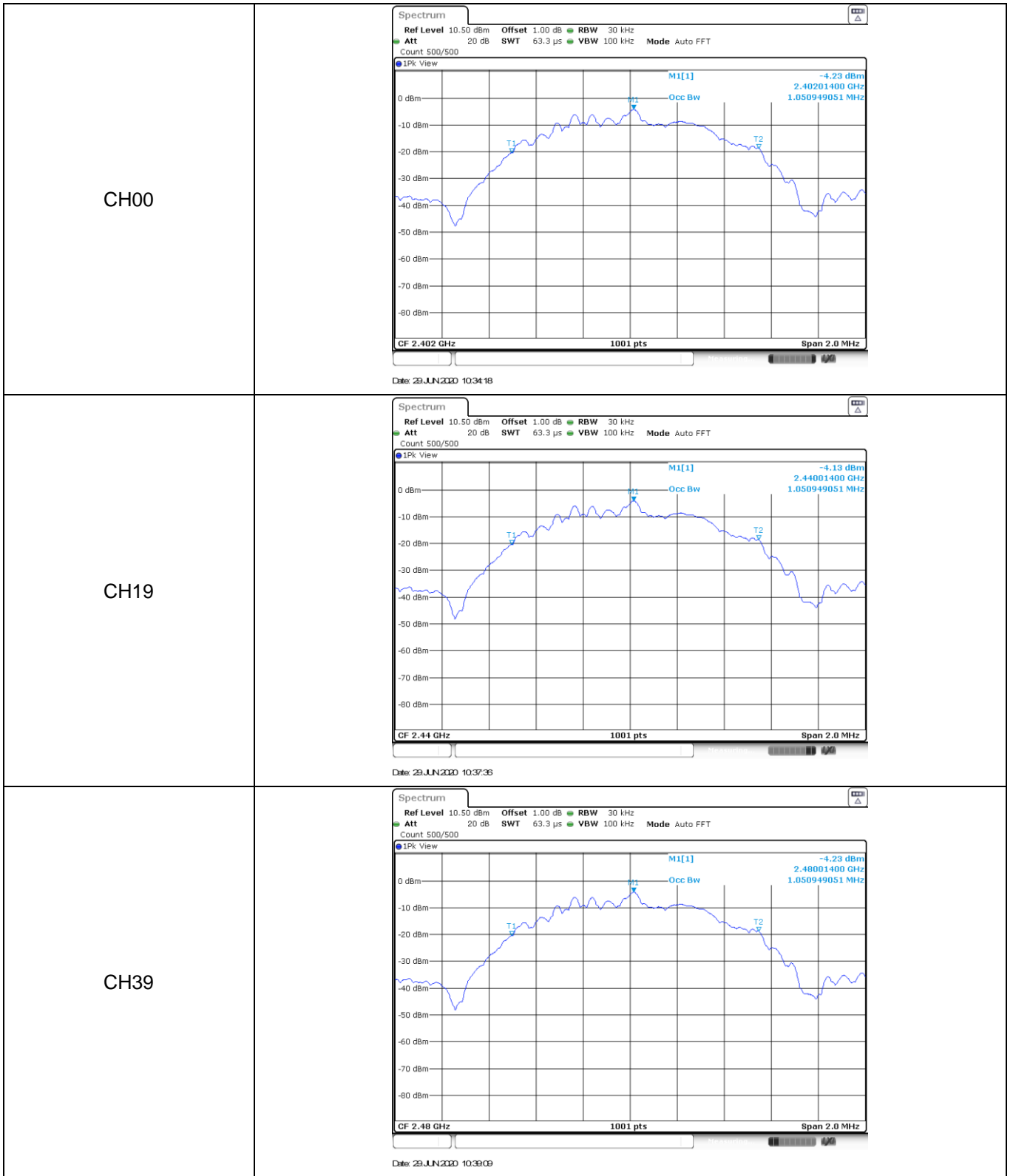


CH39



**Appendix D: 99% Occupied Bandwidth**

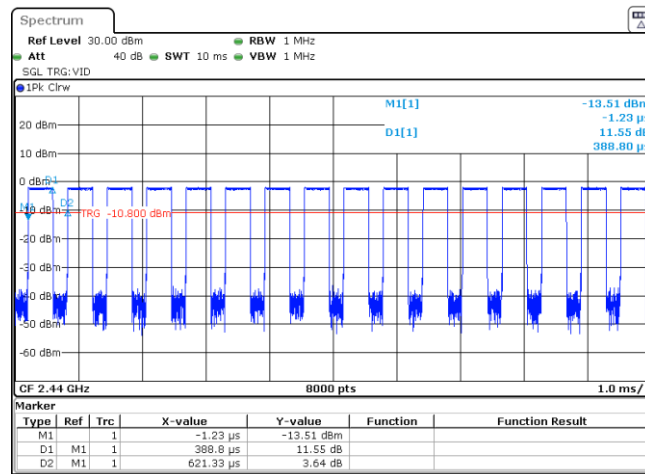
Type	Channel	99% Occupied Bandwidth(MHz)	Limit (kHz)	Result
BT-BLE	00	1.05	-	Pass
	19	1.05		
	39	1.05		





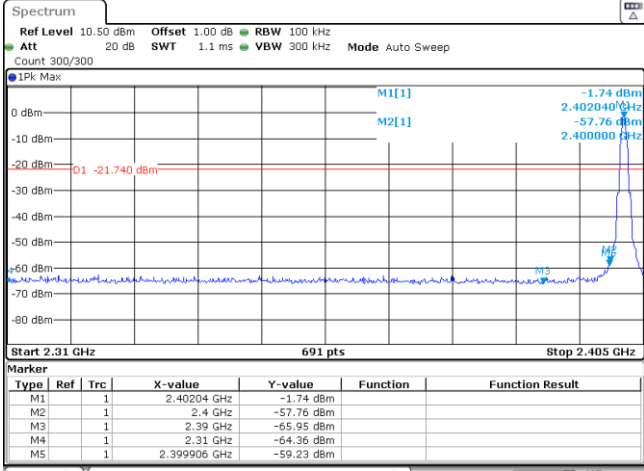
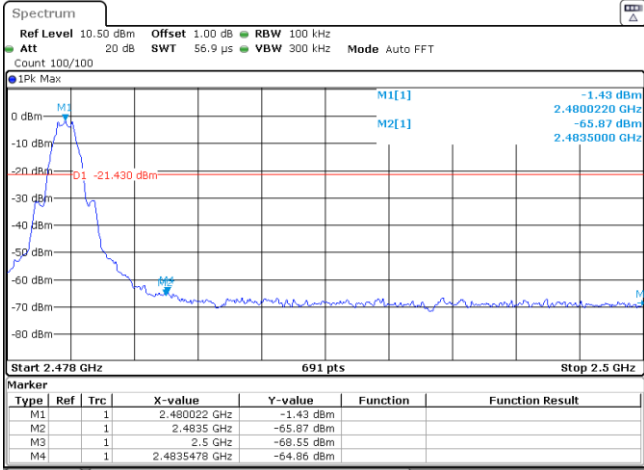
### Appendix E: Duty cycle

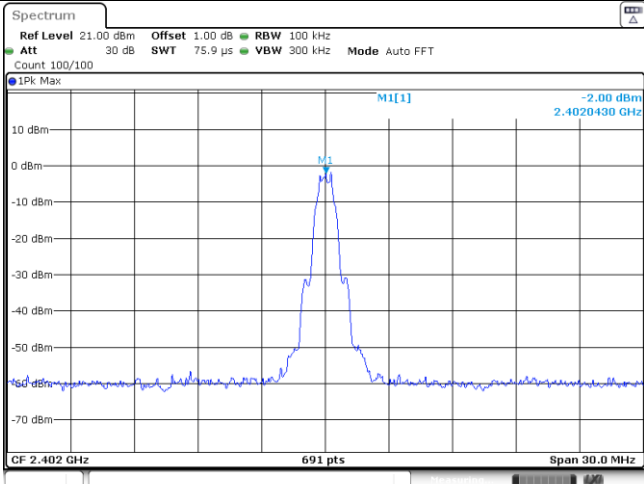
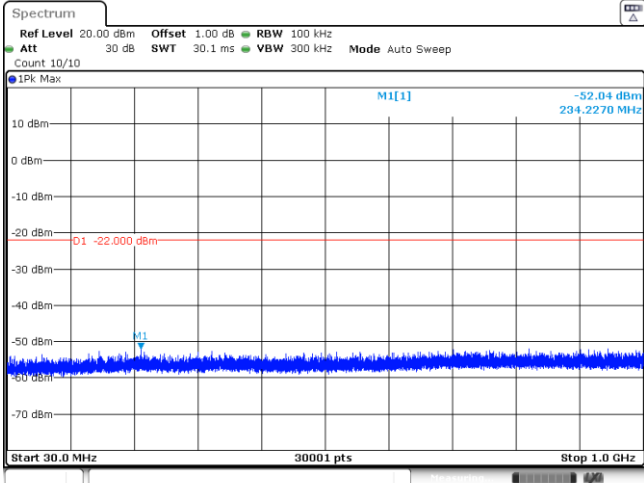
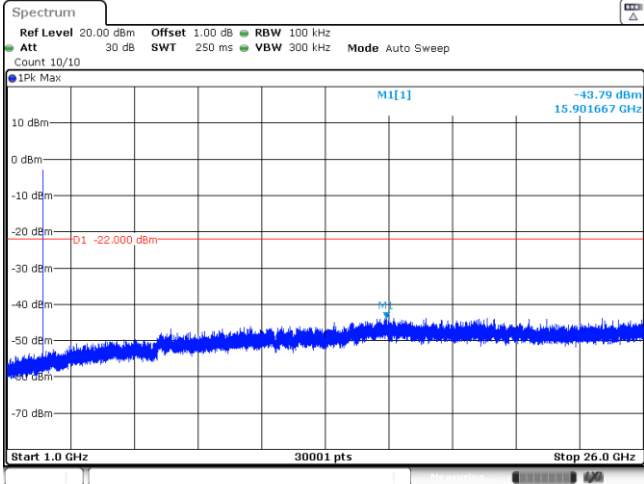
Test Frequency (MHz)	T <sub>on</sub> time for single burst (ms)	T <sub>period</sub> (ms)	Duty cycle	1/T <sub>on</sub> time (kHz)
2440	0.39	0.62	62.9%	2.6



Date: 29 JUN 2020 10:36:16

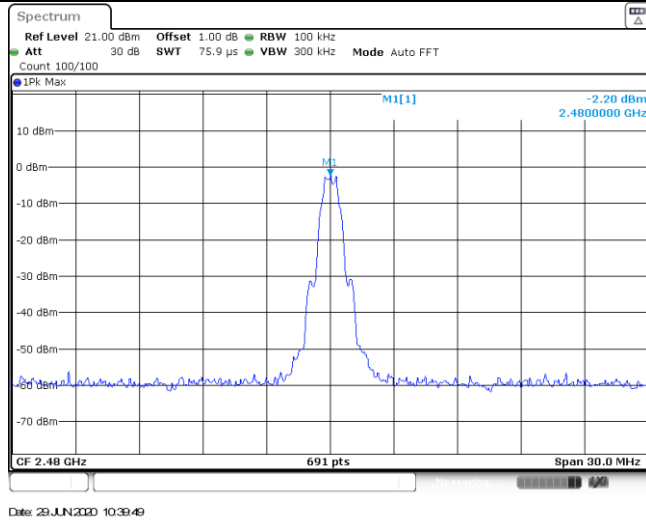
### Appendix F: Band edge and Spurious Emissions (conducted)

Test Item:	Band edge																																										
<p style="text-align: center;">CH00</p>	 <p><b>Marker Table:</b></p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>2.40204 GHz</td> <td>-1.74 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4 GHz</td> <td>-57.76 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.39 GHz</td> <td>-65.95 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.31 GHz</td> <td>-64.36 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td></td> <td>2.399906 GHz</td> <td>-59.23 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 29 JUN 2020 10:34:52</p>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		2.40204 GHz	-1.74 dBm			M2	1		2.4 GHz	-57.76 dBm			M3	1		2.39 GHz	-65.95 dBm			M4	1		2.31 GHz	-64.36 dBm			M5	1		2.399906 GHz	-59.23 dBm		
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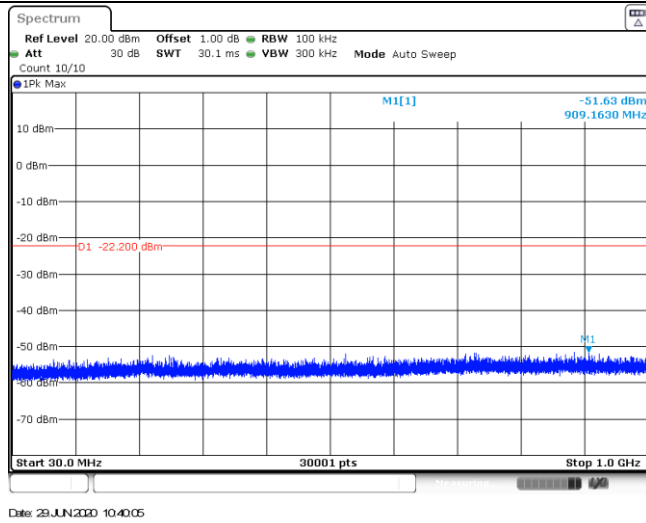
Test Item:	SE
<p>CH00 Reference level</p>	 <p>Ref Level 21.00 dBm    Offset 1.00 dB    RBW 100 kHz Att 30 dB    SWT 75.9 <math>\mu</math>s    VBW 300 kHz    Mode Auto FFT Count 100/100</p> <p>1Pk Max    M1[1]    -2.00 dBm 2.4020430 GHz</p> <p>CF 2.402 GHz    691 pts    Span 30.0 MHz</p> <p>Date: 29 JUN 2020 10:35:00</p>
<p>CH00 30MHz~1000MHz</p>	 <p>Ref Level 20.00 dBm    Offset 1.00 dB    RBW 100 kHz Att 30 dB    SWT 30.1 ms    VBW 300 kHz    Mode Auto Sweep Count 10/10</p> <p>1Pk Max    M1[1]    -52.04 dBm 294.2270 MHz</p> <p>D1 -22.000 dBm</p> <p>Start 30.0 MHz    30001 pts    Stop 1.0 GHz</p> <p>Date: 29 JUN 2020 10:35:16</p>
<p>CH00 1GHz~26GHz</p>	 <p>Ref Level 20.00 dBm    Offset 1.00 dB    RBW 100 kHz Att 30 dB    SWT 250 ms    VBW 300 kHz    Mode Auto Sweep Count 10/10</p> <p>1Pk Max    M1[1]    -43.79 dBm 15.901667 GHz</p> <p>D1 -22.000 dBm</p> <p>Start 1.0 GHz    30001 pts    Stop 26.0 GHz</p> <p>Date: 29 JUN 2020 10:35:32</p>

<p>CH19 Reference level</p>	
<p>CH19 30MHz~1000MHz</p>	
<p>CH19 1GHz~26GHz</p>	

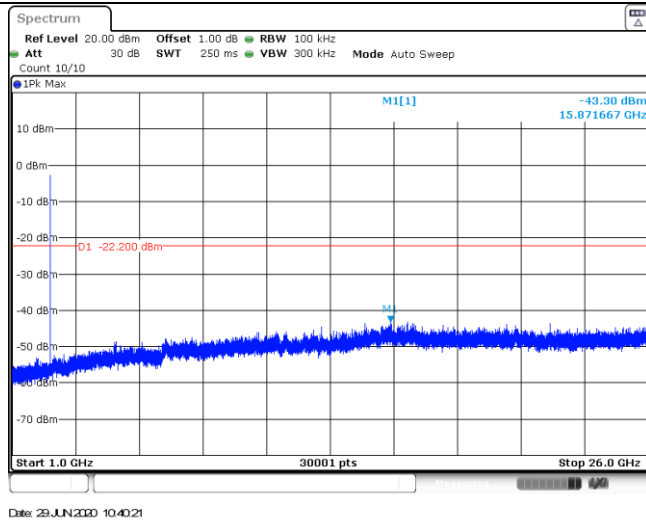
CH39  
Reference level



CH39  
30MHz~1000MHz



CH39  
1GHz~26GHz



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